

HISTORIC PROPERTY INVENTORY FORM

IDENTIFICATION SECTION

Field Site No. 2101-M OAHP No. Date Recorded 30 December 1997

Site Name Historic Common Fabrication and Storage Facility

Field Recorder Spare Parts Warehouse; Drum and Chemical Storage

Owner's Name Holly K. Chamberlain

Address U.S. Department of Energy, Richland Operations Office

City/State/Zip Code P.O. Box 550

Richland, WA 99352

State of Washington, Department of Community Development
Office of Archaeology and Historic Preservation
111 21st Avenue Southwest, Post Office Box 48343
Olympia, Washington 98504-8343 (206)753-4011

Status

☒ Survey/Inventory

☐ National Register

☐ State Register

☐ Determined Eligible

☐ Determined Not Eligible

☐ Other (HABS, HAER, NHL)

☐ Local Designation

Photography

HCRL Roll 381, Frames1-3, 5, 6, 8-12, 20

Photography Neg. No. HCRL Roll 382, Frame 22

(Roll No. & Frame No.)

View of Exterior facades

Date 1953; 30 Dec 1997; 2 Feb 1998

Hanford Photo Lab Neg #2171, Box 002104

Photo at right: Roll 382, Frame 22

View of north elevation

Classification

☐ District

☒ Site

☒ Building

☐ Structure

☐ Object

District Status

☒ NR

☐ SR

☐ LR

☐ INV

Contributing

☒ Non-Contributing

District/Thematic Nomination Name

Hanford Site Manhattan Project and Cold War Historic District

Description Section

Materials & Features/Structural Types

Building Type

Industry

Plan

Irregular

Structural System

Steel Frame

No. of Stories

One

Roof Type

☒ Gable

☐ Hip

☒ Flat

☐ Pyramidal

☐ Monitor

☐ Other (specify)

☐ Gambrel

☐ Shed

Cladding (Exterior Wall Surfaces)

☐ Log

☐ Horizontal Wood Siding

☐ Rustic/Drop

☐ Clapboard

☐ Wood Shingle

☐ Board and Batten

☐ Vertical Board

☐ Asbestos/Asphalt

☐ Brick

☐ Stone

☐ Stucco

☐ Terra Cotta

☐ Concrete/Concrete Block

☐ Vinyl/Aluminum Siding

☒ Metal (specify) Fluted Sheet Metal Panels

☐ Other (specify)

Roof Material

☐ Wood Shingle

☐ Wood Shake

☐ Composition

☐ Slate

☒ Tar/Built-up

☐ Tile

☐ Metal (specify)

☐ Other (specify)

☐ Not visible

Foundation

☐ Log

☐ Concrete

☐ Post & Pier

☐ Block

☐ Stone

☒ Poured

☐ Brick

☐ Other (specify)

☐ Not visible

Integrity

(Include detailed description in Description of Physical Appearance)

Changes to plan

Changes to windows

Changes to original cladding

Changes to interior

Other (specify)

Intact

☒

Slight

☒

Moderate

☐

Extensive

☐

LOCATION SECTION

Address 2102-M Building, 200 East Area

City/Town/County/Zip Code Richland/Benton County/99352

Twp 12 N Range 26 E Section 10 I/4 Section 1/4 1/4 Sec

Tax No./Parcel No. Acreage

Quadrangle or map name Gable Butte, Washington, 7.5 minute series

UTM References Zone 11 Easting Northing

Plat/Block/Lot

Supplemental Map(s)



High Styles/Forms (Check one or more of the following)

☐ Greek Revival

☐ Gothic Revival

☐ Italianate

☐ Second Empire

☐ Romanesque Revival

☐ Stick Style

☐ Queen Anne

☐ Shingle Style

☐ Colonial Revival

☐ Beaux Arts/Neoclassical

☐ Chicago/Commercial Style

☐ American Foursquare

☐ Mission Revival

☐ Spanish Colonial Revival/Mediterranean

☐ Tudor Revival

☐ Craftsman/Arts & Crafts

☐ Bungalow

☐ Prairie Style

☐ Art Deco/Art Moderne

☐ Rustic Style

☐ International Style

☐ Northwest Style

☐ Commercial Vernacular

☐ Residential Vernacular (see below)

☒ Other (specify) Industrial Vernacular

Vernacular House Types

☐ Gable Front

☐ Gable Front and Wing

☐ Side Gable

☐ Cross Gable

☐ Pyramidal/Hipped

☐ Other (specify)

NARRATIVE SECTION

Study Unit Themes (check one or more of the following)

☐ Agriculture
☐ Architecture/Landscape Architecture
☐ Arts
☐ Commerce
☐ Communications
☐ Community Planning/Development

☐ Conservation
☐ Education
☐ Entertainment/Recreation
☐ Ethnic Heritage (specify) _____
☐ Health/Medicine
☐ Manufacturing/Industry
☐ Military

☐ Politics/Government/Law
☐ Religion
☐ Science & Engineering
☐ Social Movements/Organizations
☐ Transportation
☒ Other (specify) Cold War Era
☒ **Study Unit Sub-Theme(s)** Reactor Operations, Operations Support

Statement of Significance

Date of Construction 1953 Architect/Engineer/Builder Bouillon and Griffith Professional Engineers

☒ In the opinion of the surveyor, this property appears to meet the criteria of the National Register of Historic Places.

☒ In the opinion of the surveyor, this property is located in a potential historic district (National and/or local).

The Fabrication and Storage Facility was completed in 1953, in the midst of the Hanford Site's second major expansion program, the primary goal of which was to double the plutonium production rate. A corollary goal was to produce the plutonium more efficiently, thereby lowering the per-unit cost. One of the early major uses for the 2101-M Building was to house production operations for graphite for the Physical Constants Test Reactor and Thermal Test Reactor. Located in the 305-B facility, these reactors were both designed to allow Hanford Site scientists to accumulate more information about the characteristics of graphite reactors, with an eye toward subsequently improving them and bringing down the costs of operations. The graphite was machined in the Pre-shop and Fabrication Shop areas, a process which included drilling vertical and horizontal holes in the graphite to accommodate the insertion of control and fuel rods respectively, and cutting it to the proper lengths.

(Please see continuation sheet)

Description of Physical Appearance

Located in the south-central 200 East Area, 2101-M is a one-story, irregularly-shaped building served by a rail spur on its western edge. Its steel frame and prefabricated fluted steel panel walls rest on a concrete foundation. The roof is covered with built-up asphalt. Most of the roof is flat, but the portion over the northeastern (mock-up) wing is gabled. The building's size is approximately 157,000 square feet.

The western elevation of the building has five metal sliding unloading doors, each of which measure approximately 7 feet, 9 inches high by 7 feet, 7 inches wide. The bottoms of the doors match up with railroad car door height. The loading dock at the northwest corner has large overhead metal roll-up doors which accommodate truck deliveries. There are also truck entrances with overhead metal roll-up doors at the southwest corner of the building, and on the western elevation of the southern wing. The north elevation has two large overhead metal roll-up doors providing access to the mock-up wing, and into the central portion, and three pedestrian entrances. The southern and change room wings each have a pedestrian door leading into a central corridor. There are no windows, except those found in some of the doors. The western portion was originally used mainly for warehouse purposes and the eastern section mainly for fabrication purposes.

(Please see continuation sheet)

Major Bibliographic References

AEC-GE Study Group. 1964. *Catalog of Hanford Buildings and Facilities 200 Area*. GEH-26434-200. Richland, Washington.

Dixon, Max. 22 April 1998. Telephone interview with former maintenance supervisor for the Plutonium-Uranium Extraction Facility. Richland, Washington.

Garvey, L.J. 1984. *Engineering Study, 2101-M HVAC Upgrade*. SD-BWI-ES-025. Rockwell Hanford Operations. Richland, Washington.

(Please see continuation sheet)